

ANEXO: Formulário e Tabelas

$\bar{X} = \frac{\sum Fx}{n}$	$Mo = li + \frac{d1}{d1 + d2} \times h$	$Md = x_i \quad i = \frac{n+1}{2}$
$Md = li + \frac{\frac{n}{2} - 'Fac}{F} \times h$	$s = \sqrt{S^2} = \sqrt{\frac{\sum F(x_i - \bar{X})^2}{n}}$	$Sp = li + \frac{i - 'Fac}{F} \times h$
$CV = \frac{s}{\bar{X}} \times 100$	$Ap1 = \frac{\bar{X} - Mo}{s}$	$Ap2 = \frac{3(\bar{X} - Md)}{s}$

$$r = \frac{S_{xy}}{S_x S_y} = \frac{n \sum xy - \sum x \sum y}{\sqrt{[n \sum x^2 - (\sum x)^2][n \sum y^2 - (\sum y)^2]}}$$

$$b = \frac{n \sum xy - \sum x \sum y}{n \sum x^2 - (\sum x)^2}$$

$$a = \bar{X} - b\bar{Y}$$

Intervalo confiança para a média (μ)	Intervalo confiança para proporção (π)
$\mu \in \left[\bar{X} \pm t \frac{\hat{s}}{\sqrt{n}} \right] \text{ onde } t \text{ é tal que } P(-t < t) = 1 - \alpha$ $\hat{s} = s \sqrt{\frac{n}{n-1}}$	$\pi \in \left[p \pm z \sqrt{\frac{pq}{N}} \right] \text{ onde } z \text{ é tal que } P(-z < z) = 1 - \alpha$
Teste t (amostras independentes)	Teste t (amostras emparelhadas)
$t = \frac{\bar{X}_1 - \bar{X}_2}{\sqrt{\left[\frac{(n_1 - 1)\hat{s}_1^2 + (n_2 - 1)\hat{s}_2^2}{n_1 + n_2 - 2} \right] \left[\frac{1}{n_1} + \frac{1}{n_2} \right]}}$ ou $t = \frac{\bar{X}_1 - \bar{X}_2}{\sqrt{\left[\frac{n_1 S_1^2 + n_2 S_2^2}{n_1 + n_2 - 2} \right] \left[\frac{1}{n_1} + \frac{1}{n_2} \right]}}$ Graus de Liberdade = $n_1 + n_2 - 2$	$t = \frac{\sum d}{\sqrt{\frac{n \sum d^2 - (\sum d)^2}{n-1}}} \text{ ou } t = \frac{\bar{d}}{\frac{\hat{s}_d}{\sqrt{n}}}$ $\hat{s} = s \sqrt{\frac{n}{n-1}}$ Graus de Liberdade = $n - 1$
Teste t de significância de r	Teste χ^2 (tabelas 2x2 e LxC)
$t = \frac{r}{\sqrt{\frac{1-r^2}{n-2}}} \text{ ou } t = r \sqrt{\frac{n-2}{1-r^2}}$ Graus de Liberdade = $n-2$	$\chi^2 = \sum \frac{(F_o - F_e)^2}{F_e}$ Graus de Liberdade = $(C-1)(L-1)$

Tabela Distribuição t					
		Nível de confiança			
		.90	.95	.98	.99
		α para teste unilateral			
		0,05	0,025	0,01	0,005
		α para teste bilateral			
Graus de Liberdade		0,10	0,05	0,02	0,01
1		6.31	12.71	31.82	63.66
2		2.92	4.30	6.97	9.93
3		2.35	3.18	4.54	5.84
4		2.13	2.78	3.75	4.60
5		2.02	2.57	3.37	4.03
6		1.94	2.45	3.14	3.71
7		1.90	2.37	3.00	3.45
8		1.86	2.31	2.90	3.36
9		1.83	2.26	2.82	3.25
10		1.81	2.23	2.76	3.17
11		1.80	2.20	2.72	3.11
12		1.78	2.18	2.68	3.06
13		1.77	2.16	2.65	3.01
14		1.76	2.15	2.62	2.98
15		1.75	2.13	2.60	2.95
16		1.75	2.12	2.58	2.92
17		1.74	2.11	2.57	2.90
18		1.73	2.10	2.55	2.88
19		1.73	2.09	2.54	2.86
20		1.73	2.09	2.53	2.85
21		1.72	2.08	2.52	2.83
22		1.72	2.07	2.51	2.82
23		1.71	2.07	2.50	2.81
24		1.71	2.06	2.49	2.80
25		1.71	2.06	2.49	2.79
26		1.71	2.06	2.48	2.78
27		1.71	2.05	2.47	2.77
28		1.70	2.05	2.47	2.76
29		1.70	2.05	2.46	2.76
30		1.70	2.04	2.46	2.75
40		1.68	2.02	2.42	2.70
60		1.67	2.00	2.39	2.66
120		1.66	1.98	2.36	2.62
∞		1.65	1.96	2.33	2.58

Tabela Distribuição do χ^2				
df	α			
	.050	.025	.010	.005
1	3.84146	5.02389	6.63490	7.87944
2	5.99146	7.37776	9.21034	10.59663
3	7.81473	9.34840	11.34487	12.83816
4	9.48773	11.14329	13.27670	14.86026
5	11.07050	12.83250	15.08627	16.74960
6	12.59159	14.44938	16.81189	18.54758
7	14.06714	16.01276	18.47531	20.27774
8	15.50731	17.53455	20.09024	21.95495
9	16.91898	19.02277	21.66599	23.58935
10	18.30704	20.48318	23.20925	25.18818
11	19.67514	21.92005	24.72497	26.75685
12	21.02607	23.33666	26.21697	28.29952
13	22.36203	24.73560	27.68825	29.81947
14	23.68479	26.11895	29.14124	31.31935
15	24.99579	27.48839	30.57791	32.80132
16	26.29623	28.84535	31.99993	34.26719
17	27.58711	30.19101	33.40866	35.71847
18	28.86930	31.52638	34.80531	37.15645
19	30.14353	32.85233	36.19087	38.58226
20	31.41043	34.16961	37.56623	39.99685
21	32.67057	35.47888	38.93217	41.40106
22	33.92444	36.78071	40.28936	42.79565
23	35.17246	38.07563	41.63840	44.18128
24	36.41503	39.36408	42.97982	45.55851
25	37.65248	40.64647	44.31410	46.92789
26	38.88514	41.92317	45.64168	48.28988
27	40.11327	43.19451	46.96294	49.64492
28	41.33714	44.46079	48.27824	50.99338
29	42.55697	45.72229	49.58788	52.33562
30	43.77297	46.97924	50.89218	53.67196